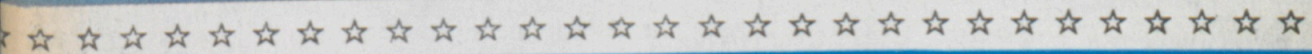


THE GEORGE WASHINGTON UNIVERSITY



# *Federalist*



SEPTEMBER 1956



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University President Cloyd H. Marvin and Assistant to the President Max Farrington met with FEDERALIST editors and members of the University Public Relations Staff.





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COVER: A huge crane lowered a cradle containing records of engineering into the Vault for the Future beneath the walkway of the Tompkins Hall of Engineering. See story, Page 3.

BACK COVER: Angel Flight, new women's adjunct to the University's Air Force ROTC. The University this fall will be one of ten institutions selected by the Air Force to inaugurate a college program of WAF training.



# LETTER FROM THE EDITOR



THE VAST EDUCATIONAL resources of the National Capital in the field of engineering were aptly illustrated during the Vault for the Future ceremony which honored Mr. Charles H. Tompkins. In addition to University representatives, 20 from major engineering groups located in Washington placed boxes in the Vault. Some of these contained as many as 100 items. Those listed below show the scope and variety included:

Board of Commissioners, District of Columbia—proposed public works . . . United States Atomic Energy Commission—a manual of design criteria, a reactor handbook, a first day issue of the atoms for peace stamp . . . Department of the Army, United States of America—photographs of dams and flood control projects . . . Department of the Navy, United States of America—flat TV tubes, the story of "Operation Deep Freeze", photo of folding causeway . . . Department of the Air Force, United States of America—chronology of American aviation events, air base planning concepts, aircraft crash locator system . . . National Advisory Council for Aeronautics—photographs of Convair F-102 and Gruman F11F-1 and a research test model, rocket powered and fired at supersonic speed . . . National Bureau of Standards—reports on radio propagation, the tinkertoy radio dropped behind the iron curtain to assist the crusade for truth . . . American Society of Civil Engineers—Bureau of Public Roads studies including "The Mount Vernon Memorial Highway" and "Express Highways in the United States" . . . American Institute of Electrical Engineers—a 60-watt light bulb, a report on electrification

of a water system . . . The American Society of Mechanical Engineers—precision instruments including actual turbine blades . . . The Society of American Military Engineers—topographical map of the District of Columbia . . . American Institute of Mining and Metallurgical Engineers—coal age mining guidebook . . . District of Columbia Society of Professional Engineers, Inc.—professional policies, canons of ethics . . . The Institute of Radio Engineers, Inc.—drawings of coupling system, sound transmission . . . The Chemical Engineers Club of Washington—surgical needles, seran seat cover, carbon black, orlon and dacron fibers . . . Washington Society of Engineers—lucite, steel, bakelite, wood block . . . Faulkner, Kingsbury & Stenhouse—Architects—projects of this firm . . . Charles H. Tompkins Company—Builders—selections from the work of this company . . . Society of Women Engineers—news clipping about need for women engineers . . . National Academy of Sciences, National Research Council—account of the Advisory Selection Committee for the Fulbright Program (that part relating to engineers).

This evidence of engineering development, now buried below the area of accident near Tompkins Hall of Engineering, preserves for the future as it emphasizes today the extent of engineering genius in the Nation's Capital.

Margaret Davis



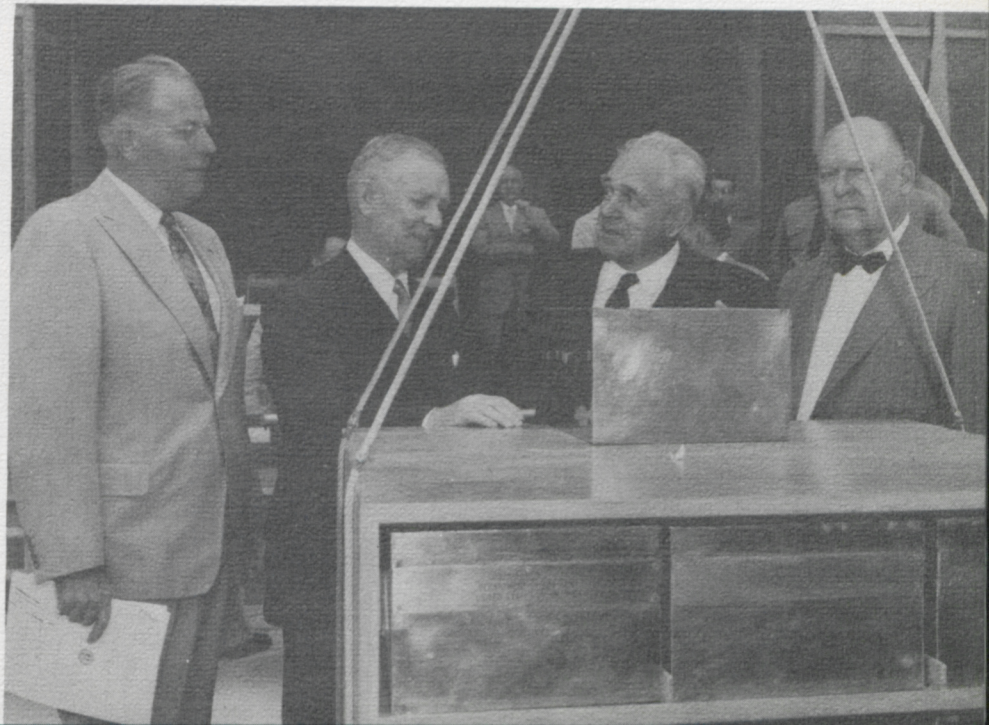
## DEDICATION OF A VAULT FOR THE FUTURE

Wednesday Morning, June 20, 1956, at Eleven-fifteen o'Clock  
Tompkins Hall of Engineering, 725 Twenty-third Street Northwest  
Washington, D. C.

**A** VAULT FOR the Future was dedicated at a Special Convocation of the University in honor of Charles H. Tompkins, Washington builder and member of the University Board of Trustees.

The Vault, which was filled with documents and articles concerned with engineering presented by 20 government agencies, national and local societies and the University, was dedicated by the Chairman of the Univer-

Mr. Proctor, Mr. Tompkins, President Marvin, and Mr. Fleming.





sity Board of Trustees, Robert V. Fleming.

Representatives of the participating organizations and government agencies presenting the articles were introduced by the University Dean of Faculties, O. S. Colclough.

Brig. Gen. Thomas H. Lane, Engineer Commissioner, represented the Board of Commissioners of the District of Columbia. Other agencies and their representatives were:

United States Atomic Energy Commission, David F. Shaw, Assistant General Manager for Manufacturing

Department of the Army, United States of America, Charles G. Holle, Maj. Gen., USA, Acting Chief of Engineers

Department of the Navy, United States of America, John B. Heffernan, Rear Adm., USN, Director, Naval History Division

Department of the Air Force, United States of America, Lee B. Washbourne, Maj. Gen., USAF, Assistant Chief of Staff, Installations

National Advisory Committee for Aeronautics, Walter T. Bonney, Assistant to the Executive Secretary

National Bureau of Standards, U. S. Department of Commerce, Henry Birnbaum, Assistant to the Director

American Society of Civil Engineers, Bernard F. Locraft, President

American Institute of Electrical Engineers, William J. Ellenberger, Past Chairman, Washington, D. C., Section

The American Society of Mechanical Engineers, LeRoy F. Deming, Chairman, Washington, D. C., Section

The Society of American Military Engineers, H. Arnold Karo, Rear Adm., USCGS, First Vice-president

American Institute of Mining and Metallurgical Engineers, Clarence A. Fredell, Chairman, Washington, D. C., Section

District of Columbia Society of Professional Engineers, Inc., Frank L. Martin, President

The Institute of Radio Engineers, Inc., Henry I. Metz, President

The Chemical Engineers Club of Washington, Arch C. Scurlock, President

Washington Society of Engineers, Joseph L. Gillman, Jr., President

Faulkner, Kingsbury & Stenhouse—Architects, Waldron Faulkner

Charles H. Tompkins Company—Builders, Charles H. Tompkins, Jr., Vice-president and Treasurer

Society of Women Engineers, Kathrine Stinson, Past President, National Society of Women Engineers

National Academy of Sciences, National Research Council, Louis Jordan, Executive Secretary, Division of Engineering and Industrial Research





Speaker at the Convocation was the Hon. Carlton S. Proctor, consulting engineer and senior partner of Moran, Proctor, Mueser and Rutledge. Mr. Proctor has been engineer for nu-

merous public works in this country and South America, including a section at Walter Reed Army Hospital. He said:

**Mr. Tompkins, Jr.**



**General Washbourne**



**Admiral Karo**



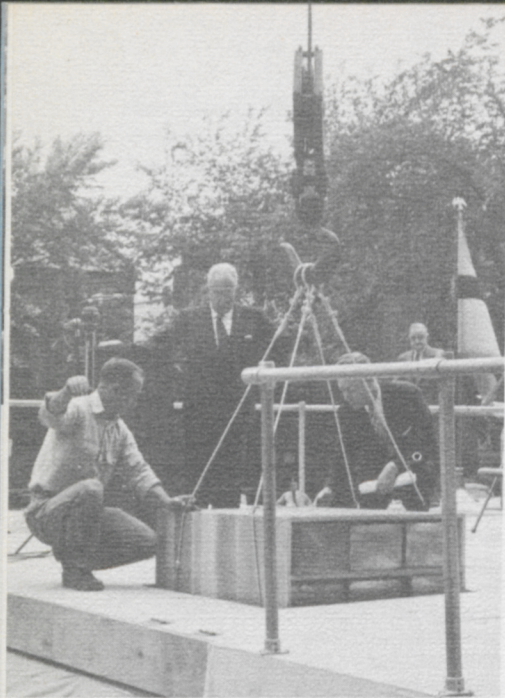
**Commissioner Lane and  
Admiral Heffernan**



"Forty-five years ago in their enthusiastically confident approach to a career not yet started, Charles and Lida Tompkins held a clear grasp of the fact that with our nation's progress the engineer must play a rapidly increasing part of importance to our national welfare, but that he must be a man of training and capacity much beyond the average college product of that day—they foresaw that the coming engineer must be one possessed of imagination and of qualities of leadership in the body politic, and a breadth of knowledge in the humanities and social sciences; that no longer could the engineer ignore the economic and social implications and repercussions of his inventions, designs and innovations. They evidently realized that the time was not far off when the partnership of science, engineering and risk capital would have dispelled man's classic fears of the ravages of nature; storm, famine and flood; fears that had influenced and directed the history of civilization. But they sensed with clear perspective that such fears would be superseded by those more dire than man had ever experienced, the fear that science and engineering would create and invent beyond their powers of control. Such all-pervading fear is, thank God, being gradually assuaged, largely through the realization of the engineer, that the direction of the products of the inventions of science and engineering into channels of progress and world peace demands the immediate reconciliation of the scientific and the spiritual; that what is most needed is a spiritual mobilization, rather than continued materiel mobilization. Probably only the engineer can provide the necessary catalyzing agency to science and religion. For to the engineer the scientist's knowledge of atomic structure has involved as a pre-requisite, a faith far deeper in things unseen and unseeable than faith in the Creator. Hence to the engineer working for atoms for peace, the atom depicts our solar system in microscopic miniature, when our solar system becomes the atom of our universe, leaving ample room for the Creator's goal of evolution, our immortal soul.

"Tompkins Hall of Engineering, here in the heart of the Nation's Capitol, demonstrates so clearly that science is the very foundation of a workable democratic system and that the character of education establishes the status and the ethics of the scientific professions."





The Invocation and Benediction were pronounced by the Rev. Dr. Clifton E. Olmstead, Associate Professor of Religion, and music was by the United States Air Force Headquarters Command Band.

The President of the United States had been invited to attend the Convocation and had accepted, prior to his sudden illness.

The Vault will preserve for 100 years records of modern engineering achievement. It will be located beneath the walkway in front of the George Washington University's Tompkins Hall of Engineering which is now nearing completion. The new building is a gift of Mr. Tompkins, who is a Trustee and alumnus of the

University, and the late Mrs. Tompkins, who was an alumna of the University. Tompkins Hall is located on 23rd Street between G and H Streets, N.W., in Washington, D. C.

Each group participating in the ceremony placed selected materials in one of 24 boxes, 8" x 12" x 18", and the boxes were sealed. During the ceremonies the copper boxes were placed in a cradle which, when filled, was lowered into the vault beneath the walk. The vault was then sealed. A granite block surmounted by a bronze plaque was placed on the walkway directly over the vault.

The boxes contain such diverse items as documents and photographs, research reports, strain gauges, fine ball bearings, gas turbine blades, a gyroscope, ball point pens—all contributing to the record of engineering and technology in the Nation's Capital as of today. It is the University's plan to open the vault 100 years from today, so that engineers then can see this record.

A bronze plaque identical with the one to be placed on the granite block has been placed in the Vault.

During the century before the Vault is opened, thousands of students will pass this spot entering the Hall to attend classes in engineering.

The text on the plaques states that "the purpose of this vault is inspired by and is dedicated to Charles Hook Tompkins, Doctor of Engineering, because of his engineering contributions to this university, to his



community, to his nation, and to other nations. By The George Washington University."

It bears the names of Robert V. Fleming, Chairman of the Board of Trustees, and Cloyd H. Marvin, President of the University.

As President of the Charles H. Tompkins Company since 1922, Mr. Tompkins has directed construction of many buildings in the National Capital and elsewhere. Among these are defense projects such as Bainbridge Naval Training Station, the Allegheny

Ordnance Plant, White Oaks Ordnance Laboratory, and the Cantonment and Engineering Board Buildings at Fort Belvoir.

Among the Washington buildings his firm has erected are Garfinckel's Department Store, Dalecarlia Filtration Plant, The National Guard Armory, Scottish Rite Temple, Tower Building and the District of Columbia Federal Court House.

Since 1935 all buildings at The George Washington University have been built under his supervision. These

### *Response by Mr. Tompkins:*

"It is not easy today for me to find words to adequately express my feelings. I confess to being human, and therefore influenced by emotional reactions from feelings of pride, gratitude and humility. Pride because of the recognition and honor that this convocation confers on me, and because of the implications of this occasion; Gratitude for the opportunity to contribute something constructive for the benefit of this University and to the Engineering Profession, and for such a lasting recognition; feelings of humility because you, my friends, along with more worthy men, educators, and engineers are honoring me today.

"For 125 years, The George Washington University has been preparing young people to meet the challenges of a changing world, and during this time, under the leadership of such men as the Board Chairman, Robert V. Fleming, and President Cloyd Heck Marvin, this school has developed into one of the great educational institutions of our Nation. It would be interesting to be on hand when this Vault is unsealed—to note the further progress of this University, as well as the progress made in those fields represented by the papers deposited in the Vault today.

"It has been my privilege for a number of years to serve as a Trustee of this University, and it has been a very satisfying experience. The University is honoring me today in appreciation of what they say I have done for the University. I, in turn, on behalf of people everywhere, express to The George Washington University our sincere thanks for its wonderful accomplishments, and its dedicated service to the young people of the world."





include Lisner Auditorium, the University Hospital and Cancer Clinic, the University Library, Hall of Government, Strong Residence Hall and Monroe Hall.

Active in business and civic organizations, Mr. Tompkins is a Director of Woodward & Lothrop, The Riggs National Bank, the Washington Boys Club, Master Builders Association, and is currently General

Chairman, Metropolitan Washington Campaign, 1956, of the American Red Cross.

He is life member of the American Society of Civil Engineers and member of a host of engineering and civic organizations such as the Society of American Military Engineers, the Masons (32nd Shriner) and the Rotary Club. He is a member of Cosmos, University and Chevy Chase Clubs.



Graduates Huda Bakr, daughter of the President of the Royal Divan of Iraq, and Third Secretary Oswaldo C. Lobo of the Brazilian Embassy are congratulated by Professor Deibert.

### Professor Deibert Receives Alfaro Medal

Alan T. Deibert, Professor of Romance Languages, and Adviser to Students from Foreign Countries at the University, has received the Eloy Alfaro Medal. The Medal, recognizing his work with foreign students, was awarded by the Eloy Alfaro International Foundation. Professor Deibert has been adviser to foreign students since 1931.

Eloy Alfaro was an Ecuadorean

patriot, general, diplomat and was twice president of the Republic Ecuador. He was a moving force in the organization of the Pan-American Union and the Organization of American States.

The medal and citation were announced to Professor Deibert by a letter from President Alfaro's son, Capt. Eloy Alfaro, and was delivered to Professor Deibert through the Ambassador to the United States from Panama, Senor Dr. Don Joaquin Jose Vallarino.



# Here and Abroad . . .

Dean Martin A. Mason, who holds a doctorate from the University of Grenoble, congratulates two Indian engineering graduates: Gope Hingorani, and Subbiah Sankaran, first in his class. Mr. Hingorani is son of the Assistant Educational Attaché and Mr. Sankaran is son of the Deputy Financial Advisor, Embassy of India.



Princesses Deanna Bau of Hong Kong and Liliana Rossi of Italy with Queen Ramin Sepahpour of Iran and Ambassador to the Organization of American States from Brazil Fernando Lobo. Dr. Lobo crowned Queen Ramin at University International Night.

Masters of Comparative Law with Dean John T. Fey (center). From left Vaino John Riisman del of Estonia, Ivan Sipkov of Bulgaria, Zenon Nizankowski of Poland and Peter Heidenberger of Germany.

Fulbright Fellow Samuel Jay Keyser is congratulated by Dr. John G. Allee Jr. Mr. Keyser will study in England this winter.







Senator Margaret Chase Smith lectures at Capitol Hill to students of the Air Force Advanced Management program.

## Administration for Public Service

**T**HE FEDERAL EMPLOYEE of today recognizes as never before the necessity for competence in management and administration in order to advance in public service. The School of Government of the University offers a broad, flexible program in public management and administration designed particularly to be of service to the Federal community.

Beginning with the Fall Semester, programs of study in business administration and public administration will be combined under one department of the University. The new Department of Business and Public Administration

will allow maximum flexibility for both programs of study.

The nation's business community is contributing today more than ever before to Government service. Since the experiences and techniques of both business and public administration are valuable to the Federal Government, majors in each field at the University are now given the opportunity to choose courses from both curricula, according to the individual needs of each student.

The Department of Business and Public Administration, headed by Dr. James C. Dockeray, Professor of Fi-



nance, formerly Director of the Office of Fiscal Policy and Tax Consultant to the Assistant Secretary for Domestic Affairs of the U. S. Department of Commerce, offers programs of study leading to Bachelor's, Master's and Doctor's degrees in Business Administration, and to Master's degrees in Public Administration and Personnel Administration. Special courses are also available for students not working toward a degree.

The curriculum leading to the degree of Master of Arts in Public Administration is designed both to prepare graduates to enter the public service and to improve the competence of those already in public employment. Work leading to the degree of Master of Arts in Personnel Administration places emphasis on governmental personnel work, but the curriculum may be adapted also to the interests of those who plan a career of personnel relations in business.

Dr. David S. Brown, Associate Professor of Public Administration, formerly Executive Secretary of the Public Advisory Board of the Mutual Security Program, with experience also in the Civil Aeronautics Administration, the Department of Agriculture, and the Navy Department, supervises the program of study in Public Administration. Course offerings are available in three general areas: Methods and Tools of Management, Human Factors of Administration, and Program Management and Policy Direction.

"Management techniques have al-

ways been important in the teaching of administration," says Dr. Brown, "and in recent years the human factor has been given equally important emphasis. But technical know-how, rounded out by attention to the needs of the individual, is still not enough. A new factor is necessary—an appreciation of goals and values. Administration is more than the study of staff functions, and management is more than methods. It is more than 'dealing with people.' It is related to objectives—closely, vitally, and inseparably related."

The man or woman who wishes to major in administration as a result, is offered work from a variety of disciplines. While primary emphasis is

David Brown, Associate Professor of Public Administration (right), advises Rigoberto Paredes on his course of study for the Master of Arts in Public Administration degree. Mr. Paredes, of Panama City, Panama, holds a combined scholarship from the United States and Panamanian governments.





placed upon the offerings of the Department of Business and Public Administration, he may, with the approval of his advisors, select from such other departments as Political Science, Psychology, Economics, Accounting, Statistics, Education, History, and Speech.

"We regard Public Administration as an umbrella under which students may select the applicable offerings of other departments," states Dr. Brown. "For example, it may be useful for a student to take work in Economics or Psychology to provide a balanced understanding of the problem. We want him to do so. For, by doing so, he broadens his understanding of the requirements of good management."

Under Dr. Dockeray's and Dr. Brown's leadership, a number of new courses have been added to the 1956-57 curriculum. The aim of these courses is to provide more substantial coverage of the field of study than has hitherto been possible. At the same time they provide sufficient variety to meet the requirements of students with special interests and problems.

"In the past," Dr. Brown notes, "too great an emphasis has been placed upon study of the staff functions. This was all right if the student was preparing to be a budget officer, a personnel specialist, or an organization and methods analyst.

"We in the School of Government feel, however, that management doesn't end with the staff offices: that specialists in the various programs in government—technicians, professionals, and others—want the University's

help as well. We have designed our curriculum here at George Washington with that in mind. We are trying to help people with the business of doing their jobs better, of making government more effective."

In addition to Dr. Dockeray and Dr. Brown, the Business and Public Administration faculty primarily concerned with administration and management includes Dr. Richard N. Owens, Professor of Business Administration; Dr. Arlin R. Johnson, Professor of Business Administration; and Assistant Dean Joe L. Jessup, Professor of Business Administration.

Dr. Owens is the author of several volumes on management which are used widely, including *Management* and *Management of Industrial Enterprises*. Dr. Johnson, who is Coordinator of the Navy Graduate Comptrollership Program, attended by 32 senior officers on a full-time basis, was formerly Assistant Director of the Office of Foreign Agricultural Relations and a staff member of the Office of Budget and Finance of the Department of Agriculture. He is currently editor of *The Country Officer*, monthly publication of the National Association of County Officials.

Dean Jessup is Coordinator of the Air Force Resources Management Program, now in its fifth year. He was formerly a high level staff member of the War Assets Administration and the National Security Resources Board.

A new member of the staff has been added for the Fall Term, Dr. Alfred Obern who, as Assistant Pro-





Assistant Secretary of Defense McNeill speaks to officers studying personnel administration at the University. These officers are candidates for the degree of Master of Business Administration.

fessor of Public Administration, will specialize in governmental management work.

Instruction in several courses is frequently provided by recognized experts in the particular area of study from Government agencies in the Washington area. Currently teaching courses in the program are Dr. Gerhard Colm, Chief Economist for the National Planning Association; Dr. Ralph A. Young, Director of the Division of Research and Statistics for the Board of Governors of the Federal Reserve System; Dr. Roy Eastin, Executive Officer, Government Printing Office; Dr. William G. Torpey, Personnel Officer, Naval Research Laboratory; and Mr. Irving S. Schwartz, Deputy Assistant Director for Administration, U. S. Information Agency.

Guest speakers from government, business, and professional research organizations are frequently invited for lectures on the latest techniques and developments in their particular fields. Special lecturers last year included Margaret Chase Smith, Senator

from Maine; M. G. Burnside, Member of Congress from West Virginia; W. J. McNeil, Assistant Secretary of Defense (Comptroller); John W. Macy, Jr., Executive Director of the Civil Service Commission; and James M. Mitchell, Associate Director of the National Science Foundation and former Deputy Assistant Secretary of Defense (Manpower and Personnel), who is also a University Trustee and an alumnus of the University.

The effectiveness of the University's program in Business and Public Administration is attested to by the recognition it has received. At present, three Federally supported programs are in operation, fulfilling specific governmental needs.

All courses of study in Public Administration are planned on the basis of individual counseling to fit the student's particular needs. Consideration is given to his professional competency and level of achievement. As nearly as possible, courses are scheduled to conform to the student's time and work requirements. —JOHN S. TOOMEY



# The University and the Handicapped

**A**ERICAN COLLEGES help restore qualified handicapped persons to valued positions of leadership.

Records show that ever since Members of Congress voted the first grants in aid for vocational rehabilitation in 1922, qualified handicapped persons have been sent to college.

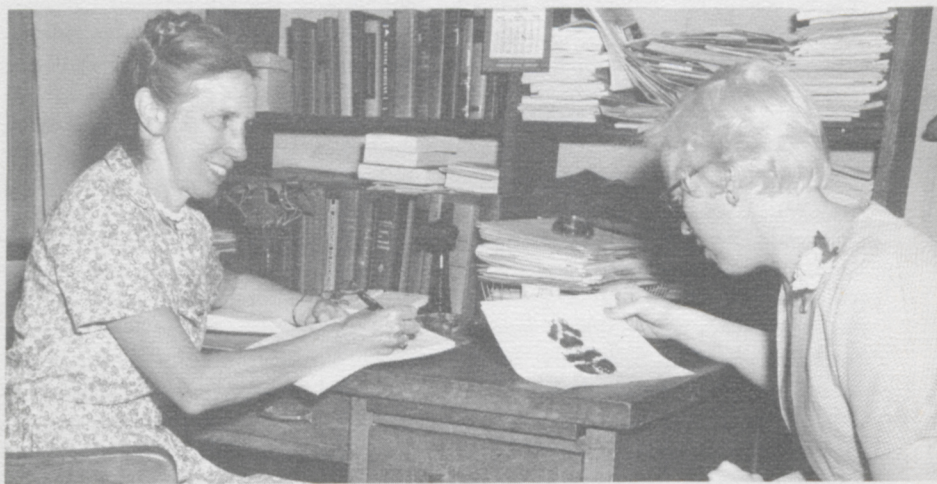
As a result thousands of lawyers, doctors, dentists, teachers, scientists

handicapped at one time, now support themselves in these vocations.

In the District of Columbia alone, 137 have been sent to institutions of higher education during the past 5 years.

Six are enrolled currently at The George Washington University, one as a master's candidate in psychology, one in Law School, and others as under-

Vocational Rehabilitation includes training to make a man or woman employable in his most talented field of work. Here Psychology Major Geraldine Green consults with Dr. Thelma Hunt at the University, where Miss Green is attending classes under the District Vocational Rehabilitation Program.





graduates planning careers in social work, teaching mathematics, social psychology, and speech therapy.

Mr. Tom G. Rathbone, Director of the District of Columbia Department of Vocational Rehabilitation, says the man or woman who is disabled may need additional training or may need to seek a new vocation. It may be a young boy or girl just over 16, seeking the right vocation. Often it is a person already established in a profession, who, by reason of disability must retrain in another.

A Washington surgeon past 40 lost the fingers and thumb of his right hand. Like most handicapped he was preoccupied with the question, "Why was it me?"

For five years he struggled with this question. His response to suggestions of vocational rehabilitation: "I don't want charity."

The counselor persisted, "All you lost was your fingers. You didn't lose your medical knowledge."

Faced with family needs, he at last agreed to return to college. Last December he entered his first job in seven years, as a public health administrator with a starting salary of \$650 a month.

Vocational rehabilitation of World War I for disabled veterans encouraged Congress to appropriate funds for grants in aid to train anyone with a physical disability who could be made employable.

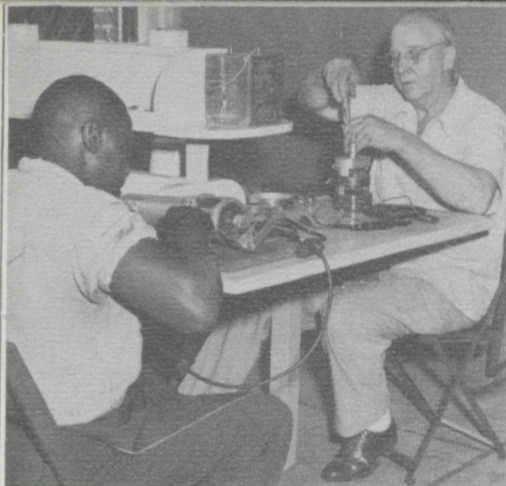
From 1922 to 1943, disabled Americans helped by this program totaled 200,000.



Trainees in the University program in Rehabilitation Counselor Training work with senior counselors at the District of Columbia Department of Vocational Rehabilitation. Trainee Chamnan Kantesewi and Counselor Seth Lewis assist the client (above) to arrange her finances until she can find a steady job.

This program was established last year under one of 28 Federal grants made available to universities. Through this grant program, Congress hopes by 1960 that 200,000 can be rehabilitated annually. University studies may lead to a Certificate in Rehabilitation Counseling. Qualified students who wish may enroll as candidates for the Master of Arts degree with options in Counseling Psychology, Guidance, or Counseling. Five traineeship awards are available through the University under a grant from the U.S. Office of Vocational Rehabilitation. Further information about this program may be secured from Harold D. Grant Jr., Coordinator, Monroe Hall 415.





The Department of Vocational Rehabilitation's new medical-vocational work tolerance evaluation center at D. C. General Hospital tests how long and how well a disabled person can work. The evaluation "team" may consist of a doctor, social worker, counselor, supervisor of a work unit at the center or foreman on that job detail at the hospital. The types of work which are evaluated vary from the culinary to the artistic, office work to welding. Two clients of the rehabilitation program shown above are "rehabilitating" electrical equipment which will be used in hospital maintenance. Their capability for this type of work will be evaluated. If it seems advisable they will be given further training.

In 1943, Congress expanded the program, making it possible to seek "physical restoration of the handicapped" by removing or reducing the handicap; also permitting purchase of tools or equipment for making a disabled man or woman employable. In the case of a lawyer starting in private practice, this might mean providing law books necessary to opening practice. In medicine, or dentistry, it might

mean office equipment. The 1943 Act also made college training of the qualified more feasible by permitting funds to be used for clothing and other types of subsistence during the college years.

Currently state and the District of Columbia Vocational Rehabilitation Departments, which receive Federal grants to assist them, care for about 200,000 disabled annually. In the District of Columbia, about 3000 are assisted each year. Local officials estimate nearly 25,000 local citizens need and could profit from the program if funds were available to help them.

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## Mason Named To Research Council

Dr. Martin A. Mason, Dean of the School of Engineering of The George Washington University, has been appointed member-at-large of the National Research Council's Division of Engineering and Industrial Research.

Dean Mason will serve in the Division for three years under this appointment, his first.

The Division is charged by the National Research Council with investigating the field of engineering and engineering research to find if any phases which are being underdeveloped might result in a danger to the national security. The Division is empowered to move to remedy this neglect by recommendation and serves to coordinate the activities of the agencies participating in carrying out the recommendations.





## Alumni Representatives

University alumni representatives in Government, pictured above, met with University officials last Spring for an updating as regards the University program and plans for its development.

They were addressed by University President Cloyd H. Marvin; Assistant to the President Max Farrington; Judge James R. Kirkland, President of the General Alumni Association; Mr. Warren Gould, Director of Alumni Relations; and Dr. Helen Stone, the University educational counselor available to advise prospective students who are employed in the Federal Government.

The University alumni representatives

are graduates of the University now employed in Federal agencies who are informed on University events and programs, or who know how to secure information with which they may not be acquainted. They will welcome opportunities to advise fellow employees as regards University matters on an informal basis or to make referrals to appropriate University personnel.

Names of these representatives appeared in the February 1956 *FEDERALIST*. If you do not know the name of the representative in your agency, the University Office of Alumni Relations will gladly tell you. ST 3-0250, Ext. 306.



# To the Campus from Capitol Hill

Senator John Sparkman keynoted the University Career Conference



"It is a matter of first importance that in every stage of the educational process you become aware of why our free society is the most desirable form of government. And so, as a part of maintaining a free society, it is necessary that you know much of the past as well as of the present.

"You should know something of Jefferson, for example, to understand democracy. You should know something of Milton's *Areopagitica*, of Peter Zenger—and on the other hand, of the Nazi book burners and of the Russian thought controllers and thought suppressors—in order to appreciate free speech and free expression and free access to ideas and information."

Senator O'Mahoney addressed the Student Bar

"When our Government was founded, it was founded by men who wanted to have a free Government, and so they provided in the Constitution that all legislative power herein granted is vested in the Congress of the United States."

... "Because the Congress did not act to adopt Federal charters and require grants from the Federal Government before any group could carry on business in interstate and foreign commerce, we have come to the time when the giant corporations of America dominate the business of the United States and part of the business of the world."





# A Typical College Girl

U. S. Information Agency this Spring sent a picture story about University Student Barbara Stuart's day to its 200 offices around the world. Miss Stuart's day included extra-curricular activities and a part-time job preparing her for a later career. She received special honors in journalism and was graduated with distinction this June and is now on the staff of the University Office of Public Relations. USIA termed her daily routine "typical of that of the 2,716,000 young men and women enrolled in 1,865 colleges and universities in the United States today."



*... in class*



*... part time job*



*... student editor*



*... dormitory life*



*... sightseeing*



*... shopping*



*... chatting*



*... study hour*





## APPOINTMENTS

**HERMAN H. BARGER**, LLB 55, has been appointed a Class III Foreign Service Officer. Presently in Washington, Mr. Barger will soon leave for his new post of Economic Officer at the American embassy in La Paz, Bolivia.

**LAWRENCE COHEN**, AB 49, has been appointed an investigator with the U. S. Civil Service Commission.

**STANLEY M. COWAN**, LLB 39, National University Law School, became Management Supervisor of Regional Office Activities for the Veterans Administration, with headquarters in Dallas, Tex. He was previously administrative officer in charge of regional office activities in Waco, Tex.

**JOHN T. FEY**, Dean of the Law School, has resigned to take the position of Clerk of the U. S. Supreme Court, a post recently vacated by **HAROLD B. WILLEY**, LLB 29. Dean Fey will remain on the part-time faculty of the Law School. Mr. Willey was Assistant Clerk during his law school days, became Deputy Clerk in 1941 and Clerk in 1952.

**DR. GLADYS GALLUP**, AM in Ed. 37, has been appointed Director, Division of Extension and Research Training, FES, the Department of Agriculture.

**MARTIN D. GARBER**, LLB 32, is new Director of the Food Distribution Division, AMS Department of Agriculture. He will administer the National School Lunch Program and the Special Milk Program in addition to distributing surplus foods.

**CHESTER HARVEY GRAY**, LLB 25, National Law School, a veteran of 28 years in the Corporation Council's office has been appointed the District's new Corporation Counsel.

**DALE HARDIN**, BA 49, LLB 51, has been appointed Assistant Legislative Counsel and Congressional liaison officer for the Interstate Commerce Commission. Mr. Hardin was formerly with the Bureau of Finance.

**JOSEPH E. HEALY**, LLB 16, President of the Citizens National Bank of Hampton, Va., was elected to the Board of Directors of the Federal Reserve Bank of Richmond.

**DR. GEORGE W. HOWARD**, MS 41, has been promoted to the newly created

Left: Retiring Clerk of the U.S. Supreme Court Harold B. Willey. Right: H. Hugo Perez, President of D.C. Chapter of Delta Theta Phi legal fraternity (left) and Earl R. Stanley, District Chancellor of Delta Theta Phi (right) honor Law School Dean John T. Fey, who succeeds Mr. Willey as Clerk of the Supreme Court.





position of Technical Director at the Army's Research and Development Laboratories at Fort Belvoir.

**DAVID BREWER KARRICK, LLB 17**, President of the Fidelity Storage Company in Washington, has been appointed a member of the District Board of Commissioners by President Eisenhower.

**ELDRED D. KUPPINGER, LLB 37**, has been appointed a Class III Foreign Service Officer in the diplomatic corps. Now in Washington, Mr. Kuppinger will soon be made Counsel General in the American Consulate General in Edinburgh, Scotland.

**SEYMOUR PADNES, BS 37**, Assistant Director of the Office of Ordnance and Transport Equipment, Office of the Secretary of Defense, has been named Director of this office.

**DR. GLEN PINCOCK, MD 34**, is new medical officer at the National Bureau of Standards. He has been in private practice in Washington for 20 years.

**ROBERT S. WALLEIGH, BS in EE 36**, has been appointed Assistant Director for Administration, National Bureau of Standards. He rejoins the Bureau after an interlude with the Diamond Ordnance Fuse Laboratories as Assistant for Administration there.

**CAPT. CHESTER WARD**, former professor at the University's Law School and George Washington graduate, LLB 35, LLM 36, has been nominated by President Eisenhower to be the Navy's Judge Advocate General.

## HONORS

"One of the newest, the biggest, and the most challenging activities in the Government's current personnel program . . . is

the incentive awards program." During the first seven months of the program, one suggestion was adopted every two minutes, one superior performance award was granted every 20 minutes and "the dollar value to the Government of adopted suggestions and superior performance averaged \$34,358 every hour," — Philip Young, Chairman, U. S. Civil Service Commission.

University federalities have received many of these awards since the program started.

**Agriculture — Dr. Richard T. Cotton, PhD 24**, AMS entomologist is the first department employee to receive the National Civil Service League Career Service Award for exemplifying in "an outstanding manner the highest characteristics of the career service."

Two alumni were among those serving on committees for the 10th Annual Honor Awards Ceremony at the Department. **Ralph S. Roberts, LLB 33, LLM 34**, Administrative Assistant Secretary, served on the Distinguished Service Award Committee, and **Percy A. Wells, AM 32**, was a member of the Superior Service Award Committee.

**Robert T. O'Connor, BS 38**, was one of a group of scientists on the Branch Research Staff of the Department in New Orleans, La., to be honored with a Superior Service Award plaque in recognition of their work in the development of new and improved methods of analysis on new and expanded uses for fats and oils.

**Dr. Clifford S. Schopmeyer, AB 33**, was awarded the superior service award for basic research in connection with the forest service.

**Air Force—Edna M. Adkins, AB 31**, Administrative Officer, who has served Air Force Chiefs of Staff since 1923, was among those receiving the first Career Service awards to be presented by the National Civil Service League.

**National Archives and Records Service—Herbert E. Angel, AB 30, AM 32**, internationally known director of records management, was also a Career Service Award winner.



Department of Commerce—Two alumni were among 18 employees of the Department to be awarded Gold Medals for "outstanding contributions to the Public Service, the Nation, or Humanity." They are: Robert H. Harrison, BS 12, Bureau of Public Roads, Chicago, Ill., for "valuable contributions to highway engineering and administration for over 43 years, with particular reference to the interstate and urban highway systems for four North Central States and Kentucky; James I. Hoffman, MS 21, National Bureau of Standards, for "outstanding contributions to the public service through highly distinguished authorship."

The individual citations at this Eighth Annual Awards Program were read by John F. Lukens, LLB 49, Commerce Department's Deputy Director of Personnel.

Ten alumni received silver medals for unusual service to the department at the same ceremony. They are: William Lerner, AB 41; Leon Gilford, MA 49; William Lerner, AB 45, and Cyril M. Wildes, AB 42, all of the Bureau of the Census. From the National Bureau of Standards, Edward J. Prosen, BS 38, AM 41; and Carl F. Snyder, Phar. D. 11, AB 17. From the Bureau of Public Roads, Margaret A. Bird, AB 32; Walter Kurylo, AA 47; James L. Shotwell, AB 37; and Leslie W. Teller, BS in CE 22, CE 32.

The Department of the Interior—Pres-ton E. Cloud, Jr., BS 38, Chief Paleontologist of the U. S. Geological Survey since 1949, is one of 16 career civilians in the Federal Government selected to receive a Rockefeller Public Service Award. Dr. Cloud will travel to European research centers in aquatic biology and geology, sedimentation and paleontology to study the methods and materials of foreign research workers and programs.

Four alumni were honored by the National Institutes of Health when the Superior Performance Group Award was given the Clinical Pathology Department for its record in the conduct and development of testing procedures which service all CC

Clinical professions. They were: Mrs. Lynda Lee Cahoon, AB 54; Davis Daniel Murray, BS 33; Helen Dorothy Park, BS 46, MS 49; and Herbert Furman Sever-smith, BS 35, AN 38.



SHIRLEY BARLOW, AA 54, a student at George Washington since 1946 who is currently working toward a BA in Business Administration, and an Administrative Assistant for the Federal Extension Service, is one of 25 women in the nation, and the only one in Washington to be selected for a special training course—"Explorations in Meaning"—at Vassar College. The course is available only to Certified Professional Secretaries. Miss Barlow is one of three women in the FES to hold a CPS.

## OTHER

JOSEPH A. CAMELIO, AA 54, was among the Department of Commerce BFC staff members who participated in the multilateral tariff negotiations in Geneva in January.

LOLA DEMING, AM 31, has returned from a trip to Japan with her husband, Dr. W. Edwards Deming, where they were guests of the Union of Japanese Scientists and Engineers and were present for the fifth annual presentation of the Deming Prize, established by Japanese industry in honor of Dr. Deming's statistical contributions on their behalf.

WELLS A. HUTCHINS, LLB 09, a veteran of 45 years of Western water problems, as a member of the U. S. Department of Agri-



culture, has published a new book, "The California Law of Water Rights," the first book on the subject in 40 years. S. T. Harding, formerly of the University of California, calls the book a "monumental contribution."

**DON LIEF**, AB 52, is currently on the text staff of "America Illustrated," the U. S. Information Agency's new Russian Language magazine. He has been with the Agency for a year and a half.

**JAMES F. MEROW**, LLB 56, is one of 42 men and one woman selected for legal positions in the Department of Justice's third annual recruitment of top students from graduating law classes throughout the country.

**ALBERT J. POWERS**, AB 39, Chief of the Caribbean Section, American Republics Division, BFC, was part of the trade mission at the International Industries Fair, Bogota, Colombia.

Two alumni participated in the Civil Service Commission's Fifth Senior Management

Intern program in Washington. They are: **WALTER W. JONES**, BS 50, MA 53, Assistant Chief of Accounts; and **SANFORD HORDES**, LLM 48, Social Insurance Adviser.

## RETIREMENTS

**THEODORE H. EICKHOFF**, LLB 13, principal contracting officer of the Cleveland Ordnance District and the man primarily responsible for design and development of the Thompson submachine gun, retired November 18, 1955, on his 70th birthday.

**PAUL D. GRUBBS**, LLB 26, special assistant to the regional counsel of the Internal Revenue Service in Cincinnati, Ohio, has retired after 38 years of government service.

**RAYMOND A. HEINDL**, BS 44, Chief of the Refractories Section of the National Bureau of Standards and an internationally known ceramist, retired after 32 years of service.—**BARBARA STUART**

University alumnae played in the Women's National Press Club stunt party show, "Equal Time," presented before President Eisenhower and other Washington officials. Above left, Patricia Wiggins, AB 50, of the United Press, is shown with Presidential Assistant Sherman Adams, whom she impersonated. At right, Miss Margaret Kane, AB 30, an information specialist at the Federal Housing Administration, who portrayed Governor Frank Lausche of Ohio, is shown with her boss, H. Kingston Fleming, FHA's Director of Public Information. Other George Washington graduates participating in the event were Inga Rundvold, Ex 40, television personality of WRC-TV; Dorothy Marks, AB 40, of the *Democratic Digest*; and Margaret Davis, AB 37, MA 41, *Federalist* editor.





OLD PRINTS,  
PAINTINGS,  
DOCUMENTS AND  
BOOKS SHOW  
GROWTH OF

## *Early Washington*



A letter to George Washington from the first Commissioners of the District of Columbia, City Directories for the District, showing names, addresses and occupations of residents of the city between 1822 and 1850, and watercolor scenes of the capital over a hundred years ago are included in a hitherto unexhibited collection of "Early Washington" belonging to the University.

The summer exhibit of the University Library, 2023 G Street, N.W., consists of a selection of prints, paintings, documents and books from the W. Lloyd Wright Collection, which

was presented to the University by the sister of the late Mr. Wright, Miss Matilda Wright. The Exhibit will be on view through September 15.

All but a very few items in the collection have never before been exhibited.

Highlights of the exhibit include a letter dated in 1798 from early District Commissioners to George Washington at Mount Vernon, in regard to some houses the first president wanted to build on North Capitol Street.

Going even further back, the collection contains a letter dated 1786 in which "Light Horse Harry" Lee, father of Confederate General Robert E. Lee, hails the approval by the Congress of a site on "our river", the Potomac, for the permanent federal capital city.

Peter Force, first printer for the Library of Congress and a local journalist, wrote a letter in the collection to his son, Manning, who was a student at Harvard. "I enclose you a Draft for one hundred and fifty dollars," he wrote, "—it will enable you to repay the fifty cents you borrowed to purchase an Opera Ticket! I once, and but once, made a like purchase." College boys have not changed.

A letter in the Wright Collection was written by the poet who wrote the words to the old favorite, "Home, Sweet Home" . . . John Howard Payne. Among the papers are also letters from the Rev. William Staughton, first President of The George Washington University. Writing from George Town, S. C., to Philadelphia, the Reverend Mr. Staughton, recently arrived



from England, was seeking employment further north as he objected to the terrible weather and "Horrors of Slavery" in the South.

Photographs in the Wright Collection show scenes and buildings of historic interest . . . more often than not because they stood in their day in places where nationally famous buildings and shrines stand today. One such photograph, of undeterminable date,

shows the lawn between the White House and the future Constitution Avenue being grazed by a large herd of contented cattle.


Mr. Wright, who was a civilian mathematician for the Navy's Bureau of Ships prior to his death in 1950, spent a lifetime collecting the pictures, papers and books in his unequaled collection.

—DON CALLANDER



Dr. Thomas M. Brown, Eugene Meyer Professor of Medicine at the University, was awarded a citation for outstanding service from the District of Columbia Commissioner's Committee for Employment of the Physically Handicapped. Dr. Brown was honored for his work in setting up clinics and laboratories for study of arthritic diseases, where patients may receive treatment as well as help with their personal problems of rehabilitation and employment. Mr. A. Julian Brylawski (above left), Co-chairman of the Committee, presents the citation to Dr. Brown. At right is Dean Walter A. Bloedorn of the University's School of Medicine.





# The Earth Satellite Vanguard of Outer Space

**T**HE MOST COMPLETE picture to date of Project VANGUARD—code name for the earth satellite phase of the United States scientific program for the International Geophysical year—was presented last Spring by the University.

Six speakers, representing the National Academy of Sciences, the Naval Research Laboratory, and the Martin Company of Baltimore, discussed the aims and problems of the satellite program, a major part of the

United States participation in IGY, which will run from July, 1957 to December, 1958.

The symposium, called "Vanguard of Outer Space", was sponsored by the Washington Section of the Institute of Radio Engineers in cooperation with the American Institute of Electrical Engineers, and presented by the University.

(International Geophysical Year is an 18-month program of intensive study by scientists of almost all na-



tions of the earth, its composition, its position in space, and its relation to the universe. Another program included in IGY is the mass exploration of Antarctica, even now under way.)

The symposium was launched by Dr. S. D. Cornell, personal representative of Dr. Joseph Kaplan, chairman of the U. S. National Committee for the International Geophysical Year of the National Academy of Sciences. The Academy is the agency responsible to the sponsoring organization, International Council of Scientific Unions, for the United States participation in IGY.

### *Nature of Space*

Dr. Cornell said the earth satellite should permit man to know more about the true nature of space, as well as determine many facts about Earth from a position as yet unattainable for more than a few seconds at a time. The satellite would be able to remain in orbit about the planet for a period of from several hours to several weeks.

Dr. John P. Hagen, project director at the Naval Research Laboratory, Washington, D. C., for VANGUARD, explained that scientists have a two-fold interest in putting a research vehicle in an orbit 200 to 300 miles above the earth. First, it will allow them to make astronomical observations of radiations from the sun which do not penetrate the earth's atmosphere. It will also allow them to determine the nature of the atmosphere itself; to study the incoming radiations and relate them to the affected regions of the atmosphere such as the ozonosphere and the ionosphere and to the unusual phenomena such as the aurora.

Dr. Hagen pointed out that the first measurements would necessarily be crude, from the scientist's viewpoint, because of the severe weight limitations on instru-

mentation imposed by the size and weight of the present design of the satellite. (Present plans envision a metallic sphere at least 20 inches in diameter, and weighing 21.5 pounds.) In addition, the data obtained must be radioed back to the earth, or telemetered.

In commenting on the problems associated with the altitude of the orbit, Dr. Hagen stated, "To perform these studies of outer space one would desire the satellite to be in an orbit as high above the earth as possible. However, there is another aspect of the problem that requires that the orbit be such that the satellite will remain just within the atmosphere. Some of the experiments to be done with the satellite do not require instrumentation in the vehicle but do require that it be visible and bright enough to make accurate measurements of a position possible. Out of these observations can come a measurement of the drag and hence of the air density at this height. Also out of these measurements can come new and better information on the shape of the geoid (earth), new and better information on the relative positions of islands and continents—geodetic mapping problems with which we have struggled for centuries. These geodetic and upper air density measurements are of such importance that it is now planned to so locate the orbit that their measurement will be favored."

### *Launching Vanguard*

Milton W. Rosen, technical director for VANGUARD, outlined some of the "heartaches" involved in placing the satellite in its orbit. The VANGUARD satellite launching vehicle will be a finless, three-stage rocket about 72 feet long, and 45 inches in diameter at its widest point, with the first two stages guided and the third stage maintained in a fixed position while firing, he reported.

The first stage, an improved Viking rocket, serves primarily as a booster for the remaining stages. The second stage, another liquid-fueled rocket, contains the



complete guidance system for all three stages, and also supplies some additional propulsive energy. The third stage, a solid-propellant rocket, houses the satellite proper, is ejected from the second stage at the orbital altitude and provides about half of the required orbital velocity—approximately 25,000 feet per second.

Mr. Rosen explained that this design of the launching vehicle was chosen after careful consideration of a number of possible two- and three-stage rocket combinations. He added that his launching system represents the smallest vehicle combination consistent with the present state of rocket development.

The U. S. Air Force Missile Test Center, Patrick Air Force Base, in Florida, has been selected as the test and launching site for the earth satellite sometime during the 18 months of IGY.

### *Controls*

A Controls Group Engineer for the VANGUARD launching vehicle being built by the Martin Company, Baltimore, Peter Freeman said that the controls systems will keep the big three-stage rocket precisely aligned in the air, using gyroscopes for references. The accuracy of this alignment, he said, must be better than half a degree at the critical point of launching the third

stage from the second.

Mr. Freeman compared the control of the rocket, which has no stabilizing fins, to a boy learning to balance a broomstick on his hand. The boy learns to move his hand ahead of any movement of the upper end of the broom, in order to stabilize or balance it.

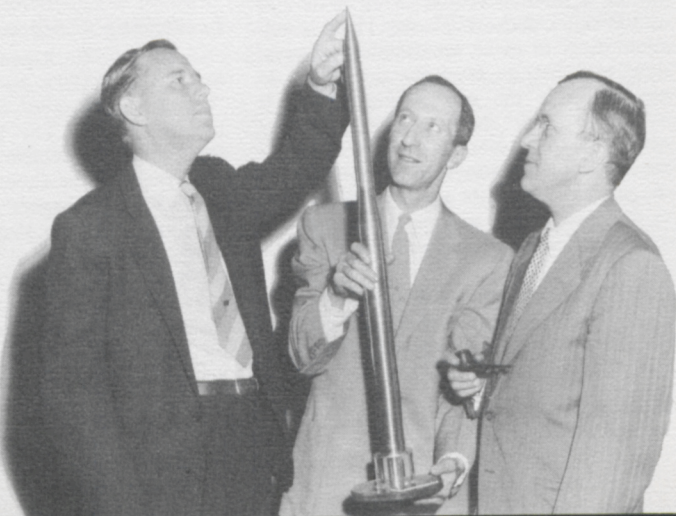
The controls system development process was described by Mr. Freeman as starting with aerodynamic analysis of the rocket airframe, continuing into a preliminary design phase in which the controls system is simulated in an electronic "brain" computer, after which the actual mechanical and electrical design is started.

### *Telemetering*

One of the important tools to be used in the launching of the earth satellite will be the electronic system known as radio telemetering. As described by Donald G. Mazur, who is in charge of this phase of the work, telemetering will be used first of all in the test phases of the VANGUARD program, to obtain complete performance data on the three rocket stages individually as well as in combination.

Telemetering equipment will also be used in the actual launching attempts. In this application the emphasis will be placed on obtaining the barest essential opera-

Left to right:  
Henry I. Metz,  
Milton W. Rosen  
and Dr. John P.  
Hagen examine a  
scale model of  
the VANGUARD  
launching vehicle.





tional information, using one or two lightweight transmitters in the rockets.

Because of the time factor and the extreme importance of equipment reliability in this application, each of the systems being considered has seen active service in other rocket programs. Perhaps the most important qualification of the system which is finally accepted is its ability to transmit and receive signals over long ranges; during certain phases of the launching vehicle trajectory, the slant range between the rocket-borne transmitters and the ground receiving stations will be over 300 miles.

Mr. Mazur pointed out that 20 or more ground stations spread out over a thousand miles must be operated simultaneously and must provide dual or overlapping coverage, with each station an important link in the telemetering chain.

### *Radio Tracking*

Radio means will also be used for tracking the earth satellite itself and obtaining scientific data back from it, according to John T. Mengel, who is in charge of the radio tracking program for VANGUARD. Radio tracking will be required to handle three jobs for the satellite: (1) to prove that it is actually orbiting; (2) to determine its precise orbit; and (3) to measure what is happening within the satellite from the vantage point of a ground station.

In describing the immensity of the first job, that of proving that the satellite is really orbiting, Mr. Mengel said:

"Let a jet plane pass overhead at 60,000 feet at the speed of sound, let the pilot eject a golf ball, and now let the plane vanish. The apparent size and speed of this golf ball will closely approximate the size and speed of a satellite 3 feet in diameter, at a height of 300 miles."

These problems are solved by the "Minitrack" system of radio angle tracking developed by the Naval Research Laboratory, Mr. Mengel stated. This system utilized a transmitter of minimum size and weight within the satellite to send

a beam of radio energy to receiving antennas at ground stations. By comparing the path length from the transmitter to one antenna with the length from the transmitter to a second antenna, it is possible to locate the satellite in its orbiting position. Similar measurements with another set of antennas helps to fix the satellite accurately. In the actual ground station layouts, seven antennas will be used. Six pieces of data will be obtained in this manner, sent to a central computing facility within 20 minutes of receipt, and used there for determining the orbit of the satellite. In commenting on the effectiveness of this system, Mr. Mengel declared, "It is not too unrealistic to predict that during a satellite event, the evening newspapers will publish on their front pages three boxes—one for the baseball scores, one for the horse race results, and one for the evening times and angles at which the satellite can be picked up."

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A weekly Sunday television program on foreign affairs, "The Other Two Billion," is sponsored by the University's School of Government and WRC-TV. At a planning conference below, are Dr. Wolfgang H. Kraus, Professor of Political Science; Dr. Fred L. Hadsel, Professorial Lecturer in Political Science; Dr. Arthur E. Burns, Dean of the School of Government; Stuart Finley, Producer; and Dr. David Brown, Associate Professor of Public Administration. Miss Lucy Pope is University Coordinator.





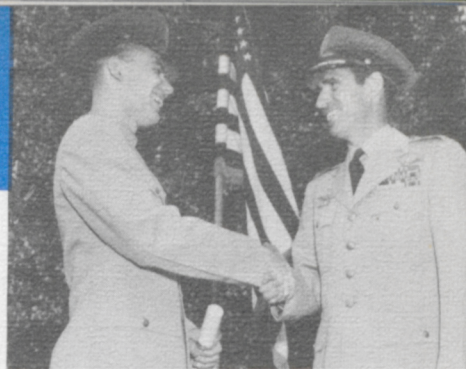
# Honors

Fifty-five government employees were elected members of major national honor societies during the last academic year.

Named to Phi Beta Kappa, national scholastic honor society, were Barbara S. Harvey, a clerk-typist in the United States Information Agency, Dorothy H. Koegler, a secretary in the Food and Drug Administration, Lucille V. Morehouse, a classification analyst in the Office of the Assistant Secretary of Defense, and Lt. Comdr. Louis J. Papas, who is stationed at Patuxent River, Md.

Named to the Order of the Coif, a national honor society, membership in which is granted to the highest-ranking 10 per cent of the graduating class of the Law School, were Hugh M. Shafer, Jr., in the Department of Justice and two Coast Guard employees, Ricardo A. Ratti and David W. Woods.

Named to Sigma Tau, national engineering society, were Navy Department Employees Henry Antosz, Herbert D. Carlson, Kenneth T. Cornelius, Dominick R. Traina and Clarence B. Ulshafer; Defense Department Employees Harold Leon Baker, Festus B. James, George F. Rowe and Charles N. Smith; and Treasury Department Employee Thomas J. Creswell. Dominick A. Bucci, employed in the Army Map Service; Peter S. P. Hui, employed



Col. Dean E. Hess, USAF, speaker at ROTC commissioning ceremonies, congratulates Lt. Walter L. Baumann, Distinguished Air Force ROTC cadet.

at the Naval Gun Factory; and Saul M. Myers, employed in the Federal Communications Commission, were also named.

Also named were the following employees of the National Bureau of Standards: Samuel A. Mawhood, Gustave Shapiro, Robert O. Stone and George Rogers. The following named were from the Naval Research Laboratory, Edgar L. Dix, Frederick C. Hallberg, Donald B. Keever and Earl E. Reber. In addition Earl S. Swann, employed at the Navy Bureau

## MEMORIAL

JOSE ABAD SANTOS, an alumnus of George Washington and a martyr at the hands of the Japanese in the Philippines during World War II, was honored by his country February 19, 1956, during Jose Abad Santos Day at San Fernando, Pangasinana, the Philippines. President Ramon Magsaysay delivered the principal address.



of Ships and Richard A. Haefs, employed in the Department of the Interior were named to the honorary.

The following were named to Sigma Xi, national scientific honorary, Harold Best, Treasury Department; Nicholas Golovin, National Bureau of Standards. The following employees of the National Institutes of Health were also named: William B. DeWitt, Gertrude P. Quinn, Dorothy J. Taylor, Herbert Weiss and Herbert Weissbach.

Also named were Frederick A. Leonard, Benjamin J. Wilson and Leonard A. Mika, employed at Camp Detrick, Md. Nicholas Carroll, Walter Reed Army Medical Center, and Albert Einheber, Department of the Army, were also named. Finally, Joseph J. Martorano, Naval Medical Research Institute, and Elizabeth J. Oswald, Food and Drug Administration, were named.

Named Associates in Sigma Xi, undergraduate membership, were two Navy Department employees, Sidney Friedman and Norward Meador. The following were also named: Milton Gordon, Camp Detrick; Emanuel Horowitz, National Bureau of Standards; Ira Kline, National Cancer Institute; Roger M. Morrell, National Institutes of Health; Eleanor Hoyme, National Museum; and James H. Rust, Jr., Walter Reed Army Medical Center.

Carol Dalton, an employee of the Department of the Navy, was tapped for Mortar Board, national senior womens honorary.

## Law Review Wins Fletcher Award

*The George Washington Law Review* has been adjudged winner of first place in a contest for law school reviews sponsored by the Fletcher Foundation of Rosemead, Calif.

During the period covered by the contest the *Law Review* editors included the following: Lieut. Charles F. Gorder, JD wd 55, Office of the Judge Advocate General, who was Student Editor-in-Chief; Capt. Matthew A. Clary, JD wd 55, Camp Legal Office, Camp Lejeune, N. C., who was Associate Editor; William W. Beckett, JD wd 56, who was Patent Editor; and Richard M. Merriman, JD 55, who was Assistant Patent Editor. Faculty Editors were Prof. J. Forrester Davison and Glen E. Weston.

The University *Law Review* is published six times a year and has, since its establishment in 1932, been devoted exclusively to Public Law.

The University's new Engineer Alumni Directory lists many Federalites. Below, left to right, Warren C. Crump, Deputy Chief Engineer and Department Director, Technical and Production Department, Navy Hydrographic office, Engineer Alumni Association President; University President Cloyd H. Marvin; and Samuel A. Mawhood, Engineers' Council President.







## COMMENCEMENT

O. S. Colclough, Dean of Faculties of the University, congratulates his son-in-law, Cmdr. Frederick Cooke USN, who received a Master of Business Administration degree.

Top right: Three distinguished trustees of the University discuss today's age of science, which they helped to create, as they wait for the academic procession to begin. They are (left to right) Dr. Lyman Briggs, Director-Emeritus of the National Bureau of Standards; Dr. Gilbert Grosvenor, retired Editor-in-Chief of the *National Geographic Magazine* and retired president of the National Geographic Society, who is now Chairman of the Society's Board of Trustees; and Dr. Alexander Wetmore, retired Secretary of the Smithsonian Institution and presently Research Associate for the Smithsonian. Center right: Alumni Association President Judge James Kirkland presents Achievement Awards to four outstanding alumni. Left to right are Frank Weitzel, Assistant Comptroller General of the United States; Judge Kirkland; Lucile Herrick, Employee Counselor, Veterans Administration; James Bennett, Director, Bureau of Prisons, U. S. Department of Justice; and Vice Adm. Alfred Richmond, Commandant, U. S. Coast Guard. Lower right: Henry Grattan Doyle, Dean of Columbian College, congratulates Judy Morse, who received a Bachelor of Arts degree, as proud parents Senator and Mrs. Wayne Morse of Oregon look on.





# Fall Semester Offerings

THE University's Junior College has added three new terminal curricula leading to the Associate in Science degree. The fields of study are Home Economics, a Basic Course in Medical Technology, and the Physical Sciences.

The need for a two-year college Home Economics program was indicated by a survey of governmental departments and private concerns. Personnel are needed in various fields closely associated with the Home Economics curriculum.

The Basic Course in Medical Technology is designed to prepare the student to meet the registry requirements of the University Hospital for training in the Medical Technology profession.

There exists a serious need for competent technical assistants who can work under the supervision of graduate scientists and lighten the minute details of their work load. The curriculum in the Physical Sciences trains such technical assistants. It was first offered at the Naval Experimental Station at Annapolis through the University's College of General Studies.

The School of Government's expanded program in Public Administration will include two courses offered for the first time during the Fall

Semester, *New Tools of Management and Employee Development and Utilization*. The Department of Political Science will offer for the first time *Public Opinion and Foreign Policy*, which will emphasize the development, organization, and operation of international information programs by major world powers.

Two graduate seminars, *Rehabilitation Counseling: Orientation and*

## FALL REGISTRATION

Registration for the University's 1956 Fall Semester will be held September 20 and 21 from 9 a.m. to 7 p.m. Law School registration will take place in Stockton Hall, 720 20th st. nw. Other students should apply at Building C, 2029 G st. nw. Classes begin September 24.

Students not currently enrolled should submit to the Director of Admissions, Building C, 2029 G st. nw., either a University Admissions Form or an Application for Re-admission. Appropriate forms may be secured at the Office of Admissions or may be requested by telephone or mail.



*Survey of Field* in the Department of Psychology, and *Community Organization and Resources* in the Department of Sociology, will be offered during the Fall Semester as a part of the graduate program in rehabilitation counseling. New offerings in Psychology also include *Psychology of Adjustment* and a seminar, *Human Engineering*.

A new course in the Law School during the Fall Semester will be *Urban Redevelopment*, emphasizing redevelopment and housing programs under current federal and state legislation.

*The Writing of Fiction—the Short Story*, an advanced creative writing course in the English Department, will be taught this fall by Clay Putman, Instructor in English Com-

position, whose short stories have appeared in both the O. Henry and Martha Foley "Best Short Story" collections, his "News from Troy" winning second prize from the editors of the former collection in 1954. His novel, *The Ruined City*, a section of which appeared in the spring issue of *New World Writing*, is scheduled for early publication.

Dr. Ernest Frank has been appointed Associate Professor of Electrical Engineering and will serve as Executive Officer of that department. A graduate of New York University and the University of Pennsylvania, Dr. Frank was previously Assistant Professor of Electrical Engineering in Medicine at the Moore School Research Division of the University of Pennsylvania.

A special advisory group met to discuss the two-year Home Economics curriculum now offered by the Junior College. Left to right: Mrs. Joan Wilhelm of the Arlington School Lunch Program; Miss Frances Kirkpatrick, Professor of Home Economics; Mrs. Virginia H. Conway of the Washington Restaurant Association; Miss L. Maye Hoover of Government Service Incorporated; Miss Rosemary Ladde, a dietitian with the Veterans Administration; Mrs. Ann S. Miller of Government Service Incorporated; Miss Katherine H. Andrews, formerly Chief Dietitian at the University Hospital; and Dean George M. Koehl of the Junior College. Seated: Miss Kathryn M. Towne, Professor of Home Economics.





Dr. Blake S. Root, Professor of Education, has been named Assistant Dean of the School of Education. Dr. William A. McCauley, formerly a member of the faculty at the University of Syracuse, and Harry G. Detwiler, of the staff of the College of General Studies at George Washington, have been appointed Assistant Professors of Education.

Dr. John W. Kendrick, formerly of the National Bureau of Economic Research and the National Income Division of the Department of Commerce, has been named Associate Professor of Economics.

Dr. Robert G. Dixon, formerly Associate Professor of Government and Politics at the University of Maryland, has been appointed Associate Professor of Law.

Dr. Richard H. Schlagel, formerly Instructor in Philosophy at Clark University, has been appointed Assistant Professor of Philosophy. Lawrence P. Leite, who is completing his doctoral studies at The Johns Hopkins University, has been named Assistant Professor of Art.

## Dr. Ruffner Accepts Post in India

Dr. Ralph W. Ruffner, Professor of Education at the University, is on leave of absence from the University to serve as Chief Education Adviser to the U. S. Director of the Technical Cooperation Mission of the International Cooperation Administration in New Delhi, India.

SEPTEMBER, 1956



*Dance  
...a universal  
language*



The University and the American Council of Learned Societies presented for a UNESCO conference dancers of three cultures with Doris Humphrey, noted choreographer, commenting on gesture in world dance. Top: Bhanumati, who danced with Bhaskar of India. Above: University Dance Director Elizabeth Burtner and American Dancer Pauline Koner. Below: Wasisto and Ksentjoto of Indonesia.





# For University Information . . .

University catalogues and class schedules are distributed for use of Federal and International Employees through the following officers. If the educational counselor in your organization wishes additional information about the University, he may secure it through the University Office of Educational Counseling, Dr. Helen S. Stone, ST 3-0250, 439.

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## Industry Aids Education

Ford Foundation grants to the Nation's private colleges and universities included an amount of \$636,000 to The George Washington University to help raise faculty salaries.

At the same time The University received permission to apply for funds in the amount of \$226,000 to improve its hospital services.

A grant of \$500,000 has been received from The Commonwealth Fund "to aid the development of medical education" at the University.

In addition to several hundred continuing grants, the University has received this year \$307,500 to endow a chair of medicine in the name of Mr. Eugene Meyer, Chairman of the Board of The Washington Post Company.

## Prominent Alumnus Joins California Firm

Philias H. Girouard, who received the degree of Bachelor of Science in Mechanical Engineering with distinction from the University in 1926, has been named Assistant Director of Engineering at Consolidated Electrodynamics Corporation in Pasadena, California.

Mr. Girouard was formerly Chief Engineer of the Bureau of Ordnance at the Navy Department, where he received the Presidential Medal for Merit for outstanding work during World War II and the Distinguished Civilian Service Award from the Navy.

He received the University's Alumni Achievement Award in 1947 and is past President of the Engineering Alumni Association.

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